

OGOSH19USA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | |
|---|---|-----------------|
| In re the Application of: |) | |
| |) | Examiner: |
| Okabe et al. |) | |
| |) | Group Art Unit: |
| Application No.: |) | |
| |) | |
| Corresponding International Filing No.: |) | |
| PCT/JP02/12697 |) | |
| |) | |
| Filed: Herewith |) | |
| |) | |
| For: COPPER ALLOY SPUTTERING |) | |
| TARGET AND METHOD FOR |) | |
| MANUFACTURING THE |) | |
| TARGET |) | |

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P.O. Box 1450
Alexandria, VA 22313-1450

VERIFICATION OF TRANSLATION

Sir:

I, Isamu Ogoshi, having been warned that willful false statements and the like are punishable by fine or imprisonment or both, under section 1001 of Title 18 of the United States Code, and may jeopardize the validity of the above-captioned application and any patent issuing thereon, declare:

(1) I am a patent attorney authorized to practice law in Japan and am engaged in the practice of law with OGOSHI International Patent Office at Toranomom 9 Mori Bldg. 3F, 2-2, Atago 1-Chome, Minato-ku, Tokyo 105-0002, Japan.

(2) I am fluent in the Japanese and English Languages.

(3) I have reviewed the attached translation, and certify that it is an accurate English translation of the Japanese language international application of Takeo Okabe and Hirohito Miyashita filed on December 4, 2002 and given International Application No. PCT/JP02/12697.

(4) All of the statements made herein of my own knowledge are true and all statements made herein on information and belief are believed to be true.

Date

Isamu Ogoshi

Table 4

Cu-0.5wt%Al (Corresponds to Example 2-1)

| | 1 | 2 | 3 | 4 | 4-5 | 4-6 | 4-7 | 4-8 | 4-9 |
|-------------|-------|-------|-------|-------|----------------|----------------|----------------|----------------|----------------|
| (111) | 21421 | 16109 | 17788 | 24298 | 24298 23122 | 24298 21366 | 24298 19688 | 24298 21223 | 24298 19883 |
| (200) | 9024 | 8697 | 7570 | 8466 | 8466 8326 | 8466 7366 | 8466 6398 | 8466 8011 | 8466 6759 |
| (220) | 3107 | 5249 | 3713 | 2850 | 2850 6216 | 2850 4469 | 2850 2964 | 2850 2633 | 2850 3987 |
| (311) | 3970 | 3266 | 3690 | 3700 | 3700 3169 | 3700 3322 | 3700 3126 | 3700 3770 | 3700 3445 |
| (111)/(200) | 2.37 | 1.85 | 2.35 | 2.87 | 2.87 2.78 | 2.87 2.90 | 2.87 3.08 | 2.87 2.65 | 2.87 2.94 |

Cu-1wt%Al (Corresponds to Example 2-2)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| (111) | 29341 | 27830 | 26552 | 30444 | 22078 | 25913 | 25215 | 26319 | 31025 |
| (200) | 12085 | 11620 | 11271 | 12027 | 13537 | 12550 | 13131 | 11388 | 12027 |
| (220) | 10458 | 11330 | 14816 | 9528 | 15687 | 14176 | 14525 | 14467 | 9703 |
| (311) | 6217 | 7321 | 5520 | 6101 | 6798 | 5403 | 5229 | 5926 | 5345 |
| (111)/(200) | 2.43 | 2.40 | 2.36 | 2.53 | 1.63 | 2.06 | 1.92 | 2.31 | 2.58 |

Table 4

Cu-0.5wt%Al (Corresponds to Example 2-1)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| (111) | 21421 | 16109 | 17788 | 24298 | 23122 | 21366 | 19688 | 21223 | 19883 |
| (200) | 9024 | 8697 | 7570 | 8466 | 8326 | 7366 | 6398 | 8011 | 6759 |
| (220) | 3107 | 5249 | 3713 | 2850 | 6216 | 4469 | 2964 | 2633 | 3987 |
| (311) | 3970 | 3266 | 3690 | 3700 | 3169 | 3322 | 3126 | 3770 | 3445 |
| (111)/(200) | 2.37 | 1.85 | 2.35 | 2.87 | 2.78 | 2.90 | 3.08 | 2.65 | 2.94 |

Cu-1wt%Al (Corresponds to Example 2-2)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| (111) | 29341 | 27830 | 26552 | 30444 | 22078 | 25913 | 25215 | 26319 | 31025 |
| (200) | 12085 | 11620 | 11271 | 12027 | 13537 | 12550 | 13131 | 11388 | 12027 |
| (220) | 10458 | 11330 | 14816 | 9528 | 15687 | 14176 | 14525 | 14467 | 9703 |
| (311) | 6217 | 7321 | 5520 | 6101 | 6798 | 5403 | 5229 | 5926 | 5345 |
| (111)/(200) | 2.43 | 2.40 | 2.36 | 2.53 | 1.63 | 2.06 | 1.92 | 2.31 | 2.58 |